

IN THE CLAIMS

Please cancel claims 13-16 without prejudice or disclaimer.

Please amend the claims as follows:

1. (currently amended) An endoscope comprising:

a treatment instrument channel; and

~~An an~~ endoscopic spraying instrument ~~in which liquid passed through~~ comprising:

a liquid supplying tube configured to pass liquid therethrough and further configured  
be removably inserted into the treatment instrument channel; and

a rotatingly guiding groove disposed at a leading end side of the supplying tube is  
~~rotated~~ and configured to rotate the liquid about ~~an a~~ central axis; ~~within~~

A a liquid rotating chamber disposed at a leading end side of the rotatingly guiding  
groove ~~and discharged forwardly from an ejection hole,~~ the liquid rotating chamber  
configured to rotate the liquid therein;

a spray nozzle formed in a leading end wall of the liquid rotating chamber and  
configured to discharge the liquid from the liquid rotating chamber, ~~the instrument~~  
~~comprising;~~

an annular, protruded wall, ~~which is~~ spaced outwardly from an outer periphery of the  
~~ejection hole~~ spray nozzle, ~~which is protruded forwardly, and which surrounds the wall~~  
protruded forwardly from and surrounding an exit of the ~~ejection hole~~ spray nozzle.

2. (previously and currently amended) The ~~instrument~~ endoscope of claim 1, wherein a wall  
surface extending between the outer periphery of the ~~ejection hole~~ spray nozzle and the annular,

protruded wall is defined by a tapered surface or a curved, concave surface.

3. (previously and currently amended) The ~~instrument~~ endoscope of claim 1, wherein a wall surface extending between the outer periphery of the ~~ejection hole~~ spray nozzle and the annular, protruded wall is defined by a planar surface perpendicular to an axis of the ~~ejection hole~~ spray nozzle.

4. (currently amended) The ~~instrument~~ endoscope of claim 1, wherein a wall surface of the annular, protruded wall is parallel to an axis of the ~~ejection hole~~ spray nozzle.

5. (currently amended) The ~~instrument~~ endoscope of claim 1, wherein a wall surface of the annular, protruded wall is defined by a forwardly spread surface or a forwardly constricted surface.

*R* 6. (currently amended) An endoscope comprising:  
a liquid supply tube;  
a treatment instrument channel configured to insertably accept the liquid supply tube; and  
A a cap member to be provided to in a leading end of an endoscopic spraying device, the  
leading end affixed to the liquid supply tube, the cap member comprising:  
a cylindrical portion defining an interior of the cap member; and  
a leading end wall at a leading end of the cylindrical portion, the leading end wall separating the interior of the cap member from an exterior thereof, the leading end wall ~~having an ejection hole~~  
comprising:

a spray nozzle communicating the interior with the exterior, the leading end wall  
including:

a first wall surface in the exterior of the cap member, the first wall surface extending

radially outwardly from an outer periphery of the ~~ejection hole~~ spray nozzle; and

*No rotating member*  
a second wall surface in the exterior of the cap member, the second wall surface extending longitudinally outwardly from an outer periphery of the first wall surface.

7. (currently amended) The ~~cap~~ endoscope of claim 6, wherein the first wall surface is conical.

8. (currently amended) The ~~cap~~ endoscope of claim 7, wherein the first wall surface is curved in section.

9. (currently amended) The ~~cap~~ endoscope of claim 7, wherein the first wall surface is planar in section.

10. (currently amended) The ~~cap~~ endoscope of claim 6, wherein the first wall surface is planar.

11. (currently amended) The ~~cap~~ endoscope of claim 6, wherein the second wall surface extends radially inwardly from the periphery of the first wall surface. *11/2*

12. (currently amended) The ~~cap~~ endoscope of claim 6, wherein the second wall surface extends radially outwardly from the periphery of the first wall surface.

13. (canceled)

14. (canceled)

15. (canceled)

16. (canceled)

17-28. (not entered)

*A* 29. (new) The endoscope of claim 1, wherein the liquid supply tube is substantially

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coaxial with the spray nozzle.

30. (new) The endoscope of claim 6, wherein the liquid supply tube is substantially  
coaxial with the spray nozzle.

INTERVIEW SUMMARY

Applicants wish to express appreciation to Examiners Lam and Casler for the telephone interview of February 20, 2003. During the telephone interview, Applicant's Attorney William Boshnick spoke to the Examiners concerning the rejected claims of the present invention. During the telephone interview, it was agreed that the Examiner will conduct a new search under the assumption that Applicants will amend the claims so that the spray nozzle is more positively recited, and that any rejections made as a result of the new search will result in a nonfinal official action. In compliance with the interview, Applicants have amended independent claims 1 and 6 to more positively recite the claimed spray nozzle. Applicants submit that this Interview Summary merely summarizes the substance of what was already noted in the Examiner's PTO-413 form, as is being included as a courtesy to the Examiner, and thus no formal summary is required.